Land Armaments

Trends

The Chinese acquired most of their industrial base for producing land armaments through Soviet assistance programs which began in the mid-1950's and terminated with the withdrawal of Soviet technicians about mid-1960. During the earlier part of the 1950's program objectives evidently were aimed at equipping the Chinese ground forces with a range of Soviet-produced conventional weapons. Chinese production of Soviet-designed weapons and artillery was underway by 1959, and quantity production of a copy of the Soviet T-54 medium tank had begun.

The was drawal of Soviet assistance halted production at almost all the land are its plants during 1961 and most of 1962. During 1963, production of many seasched, and in a few cases exceeded, the 1960 levels. From 1964 through 1966, production levels were either generally maintained or climbed at varying rates. Production levels for 1967 are assumed to have been lower than those of 1966 because it is believed that the Cultural Revolution affected the land armaments industry about as adversely as it did other segments of military industry. There is no direct evidence of this, however, and the reduction estimated for 1967 is arbitrary.

In retrospect, the dismissal of Minister of Defense P'eng Te-huai in the fall of house presaged a reimposition of Maoist

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military doctrine which considers political motivation as the presminent factor in land warfare. The implementation of this concept
requires a large investment in the most basic equipment for outfitting vast numbers of militia troops, although theory and practical
considerations combine in requiring that advanced weapons be available.
Since the recovery of production in 1963, the effect of these disparate requirements on land armaments production is shown in the slow
rate at which tanks and heavy artillery have been produced versus
continuing production of infantry weapons beyond the requirements of
the regular ground forces.

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	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	196
E tillery											
85 mm div. gums	**		50	1.00	25	50	100	150	150	200	15
122 mm hvtzs.	50	100	100	100	25	50	100	100	150	150	10
152 mm gun hwtzs.	25	50	50	50	***	~ ~	25	50	50	50	2
102/107 mm rkt. lnchrs.,											
towed	**	****			***		25	50	50	100	10
Nortars											
60 mm			***			~~	500	220000	2,000	2,500	2,5
82 333	1.50	1,500	1,500	1,000		250	5,000	4,000		2,000	2,0
120 120	2,0	2,000	1,000	1,000		200	1,000	2,000	2,500	2,500	2,5
160 mm				**		-	50	100	200	300	3
Antiaircraft Guns	//										
14.5 mm AAMG	.500	2,000	1,500	1,000	***	250	400	500	1,200	1,500	1,0
37 mm AAW	.500	1,500	1,000		***	**			~~		-
57 mm AAA		100	500	300	*** ***		30 0	600	900	15200	1,0
85 mm AAA		25	50	50	***	**	25	25	50	50	
Armored Vehicles											
Tanks, T-59/100 mm											
(Chicom copy of Soviet T-54)		10	150	250		25	50	150	250	400	3
Tanks, T-62/85 mm			1,0			-,	,,,				_
(light tank based						25	50				
on T-59) Tanks U/I amphibicus	,te 416	***			***	2)	70				
(Chicom copy of Soviet											
PT-76)			-		-	p ***	**		5	10	
U/I armored personnel carriers							10	10		***	_
carriers		ME 70°		***				10			

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TOTAL STREET, AND (CONTACTORS)

												
	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	
Small Arms (in 1,000's)									_			
(Antitank weapons)												
75 mm recoilless rifles	2.0	•75	.75	.25	-	-75	1.2	2.0	2.0	2.5	2.5	
40 mm RPG-2 Antitank rkt. lnch.	4.5	10.0			-	2.5	9.0	5.0	4.0	3.5	3.5	
(Machine guns)								٠				
12.7 heavy MG 7.62 heavy MG	1.0	1.0	1.0	inge men	***	*** ***	0.3	2.0	4.5 4.0	3·5 5·5	3.0 5.5	
(to models) 7.62 m light MG (models)	14.0	21.0	30.0	27.0	104 200	16.0	40.0	58.0	40.0	11.0	11.0	
(Individual weapons)												
7.62 mm pistol	150.0	115.0	90.0	50.0	nder upfor		60.0	90.0	150.0	60.0	40.0	
7.62 mm carbine (Chicom copy of Soviet SKS) 7.62 mm assault rifle	425.0	400.0	200.0	8 0	ugar eme	185.0	210.0	270.0	160.0	110.0	85.0	
(Chicom copy of Sov.	55.0	120.0	90.0	80.0	main silips	70.0	65.0	85.0	160.0	170.0	150.0	
				•								

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Neval Forces

Trends

Most of Communist China's shipbuilding industry was built with Soviet assistance between 1955 and 1960. From about 1955 to 1959, ship construction consisted of assembling Soviet vessels under Soviet direction, but in 1959 the Chinese apparently assumed this responsibility.

The impact of the 1960 Sino-Soviet rift severely constrained construction in general, but the shipbuilding industry was sufficiently well established in part so that construction of submarines and some other craft never ceased entirely. By 1963, most of the present construction programs had resumed or begun and were proceeding at a slow pace. The ansion and improvement of shippards and component industries also we resumed. Output increased gradually and the number of naval units astructed during 1965 and 1966 exceeded the peak yearly number assembled with Soviet assistance. The major shippards were operated well below their maximum capacity, however, and almost entirely in support of naval programs. The rate of construction began to decline in mid-1967, evidently reflecting the impact of disturbances created by the Cultural Revolution.

Submarines

Assembly of W-class submarines began in 1957 at the Kiangnan and Wu-ch'ang Shipyards. Twenty-one units were assembled with

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Soviet assistance. Several completely assembled units in various stages of outfitting in mid-1960, however, were not ready for service until late 1962. In that year R-class submarine construction was begun at these shippards and construction of the G-class ballistic missile submarine began at the Lu-ta Shippard. Although construction of the R-class proceeded quite rapidly for a time, progress slowed before the first submarine was completed in 1964, and since then the pace of construction has remained slow. The G-class submarine was completed in 1965, but construction of another has hever begun.

Destroyer Escorts

Assembly of Riga-class destroyer escorts (DE's) began at the Hu-tung Shipyard during 1956. Three were assembled in 1957. No other vessels of this type were built until 1965 when construction of the Kiangnan-class, a redesign of the Riga-class, was begun at the Kiangnan and Tung-lang Shipyards. None have been placed under construction since early 1967, and it is probable that the program is being terminated.

Subchasers

No other very ls of this type were placed under construction until 1964 when work on a Chinese designed craft began at the Huang-pu Shipyard. Construction of this craft also began at the Chiu-hein Shipyard in 1967.

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Patrol Craft

Relatively large numbers of patrol craft, especially motor torpedo boats, were built between 1957 and 1961. Construction, however,
began to decline in 1960 and no new units were observed in 1962.
Building programs resumed in 1963 and the first missile patrol boat
was identifed that year. Construction rates of all types increased
generally through 1966. The overall rate was maintained during
1967 because construction of torpedo boats nearly doubled, and many
1967 deliveries represented part of the 1966 production effort.

Minesveepers

Except for the year 1961, the Chinese have turned out minesweepers continuously since 1957. Although construction of the
original type (Soviet T also was interrupted during 1963 and
1964, construction of smaller to more than filled the gap during
those years. Overall output increase radually through 1966,
dropping significantly in 1967.

Amphibious Craft

Large numbers of amphibious craft have been built since 1955. Most of these units have been copies of a small US landing craft, but in the past several years a larger craft (Yunnan-class) has been built in Shanghai. Slowdowns in this program occurred after the Soviet withdrawal and again in late 1967.

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Naval Auxiliaries and Other Craft

Steady construction of auxiliary craft did not begin until 1963 and rates have been quite low. As in almost all the other programs, rates fell in 1967. Construction of river patrol craft has been continuous since 1957, but the trend of construction has followed the general pattern for the industry.

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	1957	1958	1959	1960	1961	1962	<u> 1963</u>	1964	1965	1966	1967
Sulmarines											
W-class	4	6	5	1	2	3	property.	40 Mg ·	***		
R-class/torpedo attack	output Mater			{	***	ran sen	***	1	1	2	2
Destroyer Escorts											
Riga-class	3	AND ARE				***	****				
Kiangnan-class	****	***			~~	***	*****		***	2	2
Subchasers			J								
Kronshtadt-class	8	40 MP	***				**	1	7		1
Hainan-class	ado Agor	**	gas 100.					1	*		*
Patrol Craft											
OSA SEC (Guided missie boat) Komes TG (Guided miss boat)									-	^	0
missing boat)	10 MB				**	***	***	1	1	2	2
Koman TG (Guided niss e boat)		per site	**			-	1 .	sale sole	+-	2	
CHARTE T T. T. I. CHO.			4	4	h		2	15	30	50	30
patrol boat)		3.0		16	5		3 5	īó	15	50 25	25
PGM Motor gumboat	5	15	20q 25	15 15	4 5 5			2	30 15 5	15	30 25 35
Torpedo Craft	25	25	2)	17	フ	and super			*		<i>37</i>
Mine Warfare											
T-43	2	2	3	1	0	2	**	**	2	4	10
_ MEM/MEM		***	-	~	~~	withroom	2	15	15	15	10

^{*} Years are those in which the units reached operational status.

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	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
Amphibious Craft											
Jan/Lor	15	30	3 0	25	25	***	5	10	25	25	25
Amiliaries 🍐											
Sub Tender A		***	******			***		1	agh. Alby	**	
AC/AOL (OLLES)			içan emp	***		 3.	1	ន្ត្	5	7	5
AK/AKL (Carab)			***	-	1		min ten.	3	2	2	2
AG-Misc.	~-	+	NA- 194	**	***		34 MB	***		2	t er
Other YP-river patrol	15	15	15	15	10	5	10	10	15	20	15

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Aircraft

Trends

With Soviet assistance, the Chinese began to build an aircraft industry in the mid-1950's. In 1957, production of MIG-17 jet fighters began at Shen-yang Airframe Plant 112, and the first piston transport AN-2 was produced at Nan-ch'ang Airframe Plant 320. Production of MI-4 helicopters began at Harbin Airframe Plant 122 in 1958. In 1960, production of MIG-17's at the Shen-yang plant began to be replaced by assembly of the MIG-19. The withdrawal of Soviet aid in mid-1960 halted the production of fighters and helicopters. AN-2 transports continued to be produced, but at a greatly reduced rate.

Production of a piston trainer (a Chinese version of the Yak-18 primary trainer) was initiated at the Nan-ch'ang plant in 1964. The MIG-1 interceptor and MI-4 helicopter programs were resumed in 1965. From an of all types of aircraft expanded steadily until 1967 when output decrined at all the plants, apparently a result of disturbances related to the Cultural Revolution.

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Aircraft

							-	-	-	-	-	-
Type of Aircraft	Model	1957	<u>1958</u>	1999	<u>1960</u>	1961	1962	<u> 1963</u>	1964	1965	<u> 1966</u>	<u>1967</u>
Jet fighter	Presco (MIG-17)	1	120	H	90	****	***	***	•••			. NO 484
	Farmer (MIG-19)	grin' sain	**	#	25	**	~*	****	mp noir	170	290	180
Piston transport	Colt (AN-2)	1	58	rho	110	33	15	52	40	60	97	60
Piston trainer	Ch'uchiao-6			/	, mar 444.	**		***	6	20	24	12
Heli copter	Hound (MI-4)	***	1	3	21	Age of the	***	-		40	120	80



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Surface-to-Air Missiles

Trends

A Soviet assistance program designed to create the scientific and technical base to support Chinese missile development and production programs probably began early in 1958. Construction of missile research and development facilities did not begin, however, before mid-1959, and they were in a very early stage of construction when Soviet assistance programs were terminated in mid-1960.

Ten-to-twelve sets of SA-2 unit equipment were supplied to China in the late 1950's as part of direct Soviet assistance to China's military forces, but the Chinese were not able to exploit immediately the technology embodied in the SA-2 system.

Construction and tooling of readed development and production facilities did proceed steadily, however. The T'ai-yuan double-base propellant plant could have begun manufacturing SAM booster motors in 1965. A Chinese open source publication connected the Tientsin Electronic Equipment Plant with SAM system computer production late in that year.

	Chin	ese	prod	luction	on of	COM	mplete S	АМ ве	ts	definite	V.	-12)66
wher	ı five	or	six	sets	ofι	ınit	equipme	nt we	re	produced	*		
									3	, its C	ору	of 9	

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a significantly smaller number than expected. The shortage probably was at least in part a by-product of the Cultural Revolution which caused severe civil disturbances in all the industrial centers associated with production of this weapon system.

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1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 10*

SA-2 Sets

Chicom sets generally include:

2 canister dollies

6 missile launchers 6 launcher bogie wheels 12 missile transporters with 12 "ZIL type" 157 trucks 4 canister transporters with 4 ZIL type "157" trucks 12 SA-2 Model 1 missiles 4 missile sustainer canisters 4 missile booster boxes 1 Fan Song "B" radar w/ECCM 6 guidance/control truck vans 5 guidance/control trailer vans 1 target acquisition radar 1 communications van 10 AT-S tracked artillery tractors
1 oxidizer transport frailer l oxidizer transport l water or fuel tru

1 fork lift
4 cargo trucks
1 K-51 crane

* Imported Soviet SA-2 sets with standard "B" model Fan Song and Model 1 missile.

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